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(ABSTRACTS)

## PATENT ABSTRACTS OF JAPAN

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## (54) PENDULUM TYPE POWER DEVICE

## (57)Abstract

**PURPOSE:** To obtain a wide pressure receiving area and to make it possible to generate a high output through a low pressure power source by a method wherein an oscillating plate is arranged within a fan-shaped cylinder so as to oscillate about a shaft as a fulcrum point and a connecting rod is connected to the oscillating plate.

**CONSTITUTION:** An air tight ring 2 is arranged around the oscillating plate 1 and the shaft 3 is provided at the lower end of the oscillating plate 1. Further, the oscillating plate 1 is arranged in the fan-shaped cylinder 4 in such a manner that the plate 1 oscillates right and left about the fulcrum point shaft 3. In addition, a crank 5 is arranged on the side wall of the air cylinder 4 and the connecting rod 6 is connected to the oscillating plate 1.

In the titled device, when a gas within the cylinder 4 explodes, the oscillating plate 1 rotates about the shaft 3 due to the pressure of the gas so that the connecting rod 6 is thrust by the plate 1 to thereby rotate the crank 5. In this case, the oscillating plate 1 converts the gas pressure into circular motions which are transmitted to the crank 5 and therefore, the entire connecting rod 6 moves circularly to thrust the crank 5 with the result that the range of the dead center of the crank becomes smaller than in the case of a piston and the transmitting efficiency is improved.

